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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,977	11/17/2003	Thomas M. Rossi	42P17125	5336

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EXAMINER

TRAN, THUY V

ART UNIT PAPER NUMBER

2821

DATE MAILED: 09/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/715,977	Applicant(s) ROSSI ET AL.	
	Examiner Thuy V. Tran	Art Unit 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on amendment submitted on 07/01/2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 22-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 22-44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07/01/05</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is a response to the Applicants' amendment submitted on July 1st, 2005. In virtue of this amendment, claims 1-21 are canceled; claims 22-44 are newly added; and thus, claims 22-44 are now presented in the instant application.

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on July 1st, 2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 22-36 and 38-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Woo (Pub. No.: 2003/0132929 A1).

With respect to claim 22, Woo discloses, in Figs. 1-2, a display [160] comprising (1) a lamp [150] to illuminate the display, and (2) a heat pipe (either part, left or right, of 130; see Fig. 1) coupled to the lamp to transfer heat from a heat generating component [110] of a system to the

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lamp [150] in the display [160], wherein the heat pipe is coupled to an end of the lamp (see Fig. 1).

With respect to claim 23, Woo discloses, in Figs. 1-2, that the display further comprises a second heat pipe (either part, left or right, of 130; see Fig. 1) coupled to a second end of the lamp.

With respect to claim 24, Woo discloses, in Figs. 1-2, that the display further comprises a unit [210, 220, 230, 240, 250] (see Fig. 2) to control a level of electrical power input provided to the lamp [150] based on a level of the heat transferred to the lamp from the heat generating component [110] (see paragraphs [0022]).

With respect to claim 25, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240, 250] comprises a temperature sensor [210] in the locality of the lamp [150].

With respect to claim 26, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240, 250] uses a temperature of the temperature sensor to signal a power module to adjust the level of electrical power input (see paragraphs [0025, 0026]).

With respect to claim 27, Woo discloses, in line 4 of paragraph [0013], that the lamp [150] comprises a cold cathode fluorescent lamp.

With respect to claim 28, Woo discloses, in line 3 of paragraph [0019], that the heat generating component [110] is a CPU, which is a processor as claimed.

With respect to claim 29, Woo discloses, in Figs. 1-2, a system comprising (1) a display [160] and a lamp [150] to illuminate the display, (2) one heat generating component [110], (3) a transfer unit [120, 130] to transfer heat from the heat generating component [110] to the lamp [150], and (4) a unit [210, 220, 230, 240, 250] to control a level of electrical power input

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provided to the lamp [150] based on a level of the heat transferred to the lamp [150] from the heat generating component [110] (see Fig. 2; paragraph [0022]).

With respect to claim 30, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240 250] comprises a temperature sensor [210] in the locality of the lamp [150].

With respect to claim 31, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240, 250] uses a temperature of the temperature sensor to signal a power module to adjust the level of electrical power input (see paragraphs [0025, 0026]).

With respect to claim 32, Woo discloses, in Figs. 1-2, that the transfer unit [120, 130] comprises a heat pipe (either part, left or right, of 130; see Fig. 1) coupled to an end of the lamp (see Fig. 1).

With respect to claim 33, Woo discloses, in Figs. 1-2, that the display further comprises a second heat pipe (either part, left or right, of 130; see Fig. 1) coupled to a second end of the lamp.

With respect to claim 34, Woo discloses, in Figs. 1-2, that the display further comprises a heat block (box around [120] shown in Fig. 1) thermally coupled between the heat generating component [110] and the transfer unit [120, 130].

With respect to claim 35, Woo discloses, in line 4 of paragraph [0013], that the lamp [150] comprises a cold cathode fluorescent lamp, and in line 3 of paragraph [0019], that the heat generating component [110] is a CPU, which is a processor as claimed.

With respect to claim 36, Woo discloses, in Figs. 1-2, an apparatus comprising (1) one heat generating component [110], and (2) a transfer unit [120, 130] to transfer heat from the heat

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generating component [110] to a lamp [150] of a display [160], wherein the transfer unit comprises a fan [120] to generate air movement across the heat generating component [110].

With respect to claim 38, Woo discloses, in Figs. 1-2, that the transfer unit [120, 130] comprises a heat pipe (either part, left or right, of 130; see Fig. 1) coupled to an end of the lamp (see Fig. 1).

With respect to claim 39, Woo discloses, in Figs. 1-2, that the apparatus further comprises a second heat pipe (either part, left or right, of 130; see Fig. 1) coupled to a second end of the lamp.

With respect to claim 40, Woo discloses, in Figs. 1-2, that the apparatus further comprises a unit [210, 220, 230, 240, 250] (see Fig. 2) to control a level of electrical power input provided to the lamp [150] based on a level of the heat transferred to the lamp from the heat generating component [110] (see paragraphs [0022]).

With respect to claim 41, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240, 250] comprises a temperature sensor [210] in the locality of the lamp [150].

With respect to claim 42, Woo discloses, in Figs. 1-2, that the unit [210, 220, 230, 240, 250] uses a temperature of the temperature sensor to signal a power module to adjust the level of electrical power input (see paragraphs [0025, 0026]).

With respect to claim 43, Woo discloses, in line 4 of paragraph [0013], that the lamp [150] comprises a cold cathode fluorescent lamp.

With respect to claim 44, Woo discloses, in line 3 of paragraph [0019], that the heat generating component [110] is a CPU, which is a processor as claimed.

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Woo (Pub. No.: 2003/0132929 A1) in view of Fryers et al. (U.S. Patent No. 6,330,154 B1).

With respect to claim 37, Woo discloses all of the claimed subject matter, as expressly recited in claim 36, including a duct [130] as the transfer unit [120, 130], but does not teach a funnel part therein.

Fryers et al. discloses a cooling apparatus comprising a duct having a diffuser portion generally in a funnel-shape (see col. 6, lines 47-49).

It would have been obvious to one of ordinary skills in the art at the time of the invention to implement the apparatus of Woo by making a funnel part in the transfer unit of Woo to achieve the cooling control at various regions along the duct since such an arrangement of the funnel part for the stated purpose has been well known in the art as evidenced by the teachings of Fryers et al. (see col. 6, lines 56-58).

Remarks and conclusion

6. Applicant's arguments with respect to new claims 22, 29, and 36 have been considered but are moot in view of the new ground(s) of rejection.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

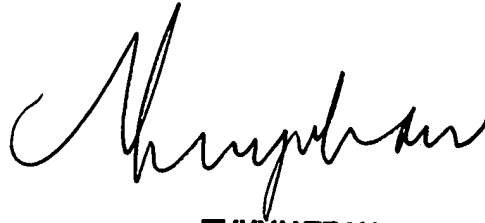
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A handwritten signature in black ink, appearing to read 'Thuy V. Tran', written in a cursive style.

**THUY V. TRAN
PRIMARY EXAMINER**